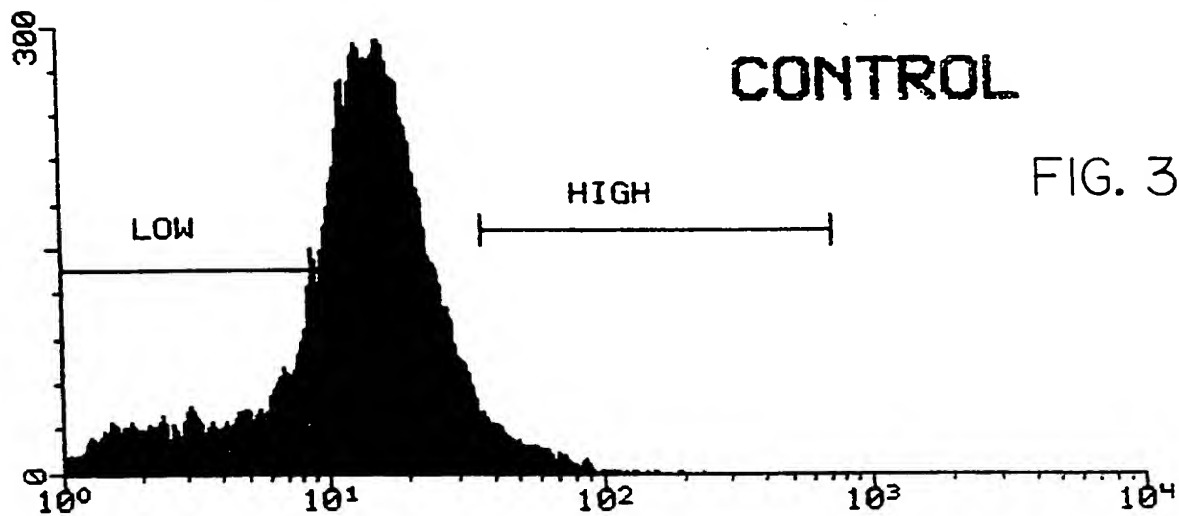


FIG. 1

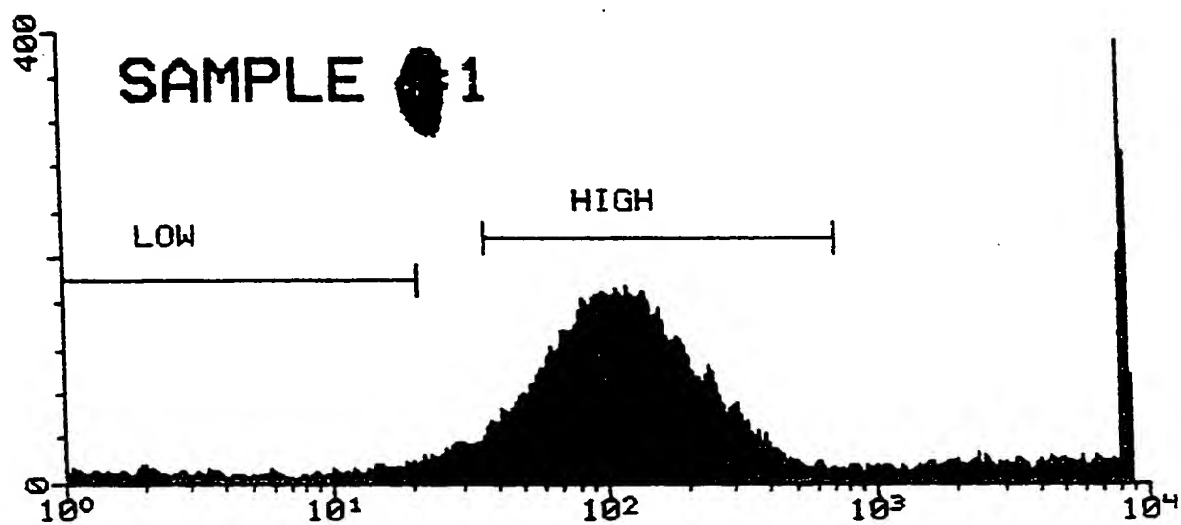
FIG. 2

245670" 92050866

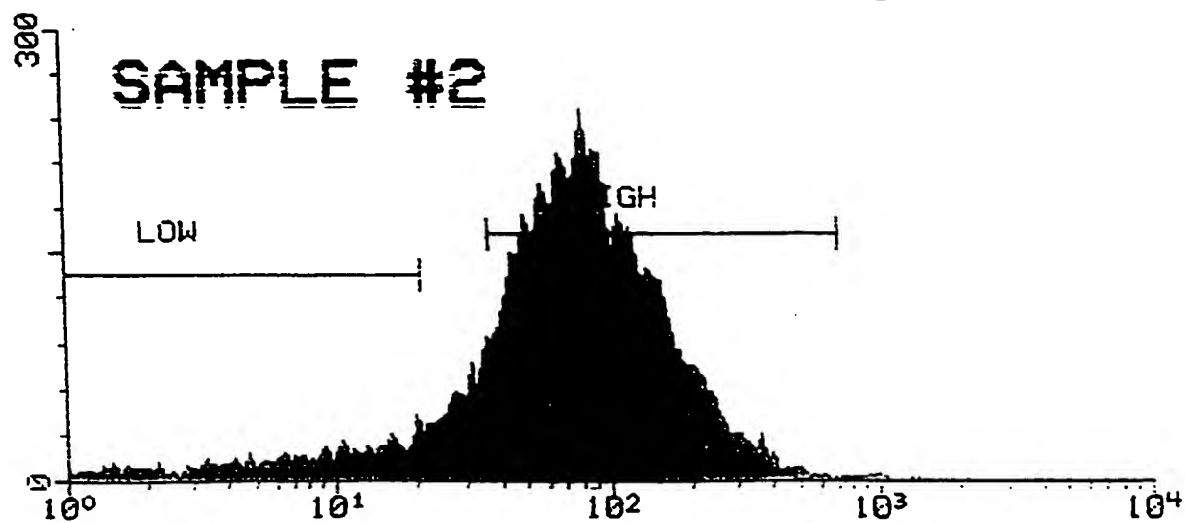
#11:/1/ST07B003\FL1-H\FL1-Height



#11:/1/ST07B001\FL1-H\FL1-Height



#11:/1/ST07B002\FL1-H\FL1-Height



000070 00000000

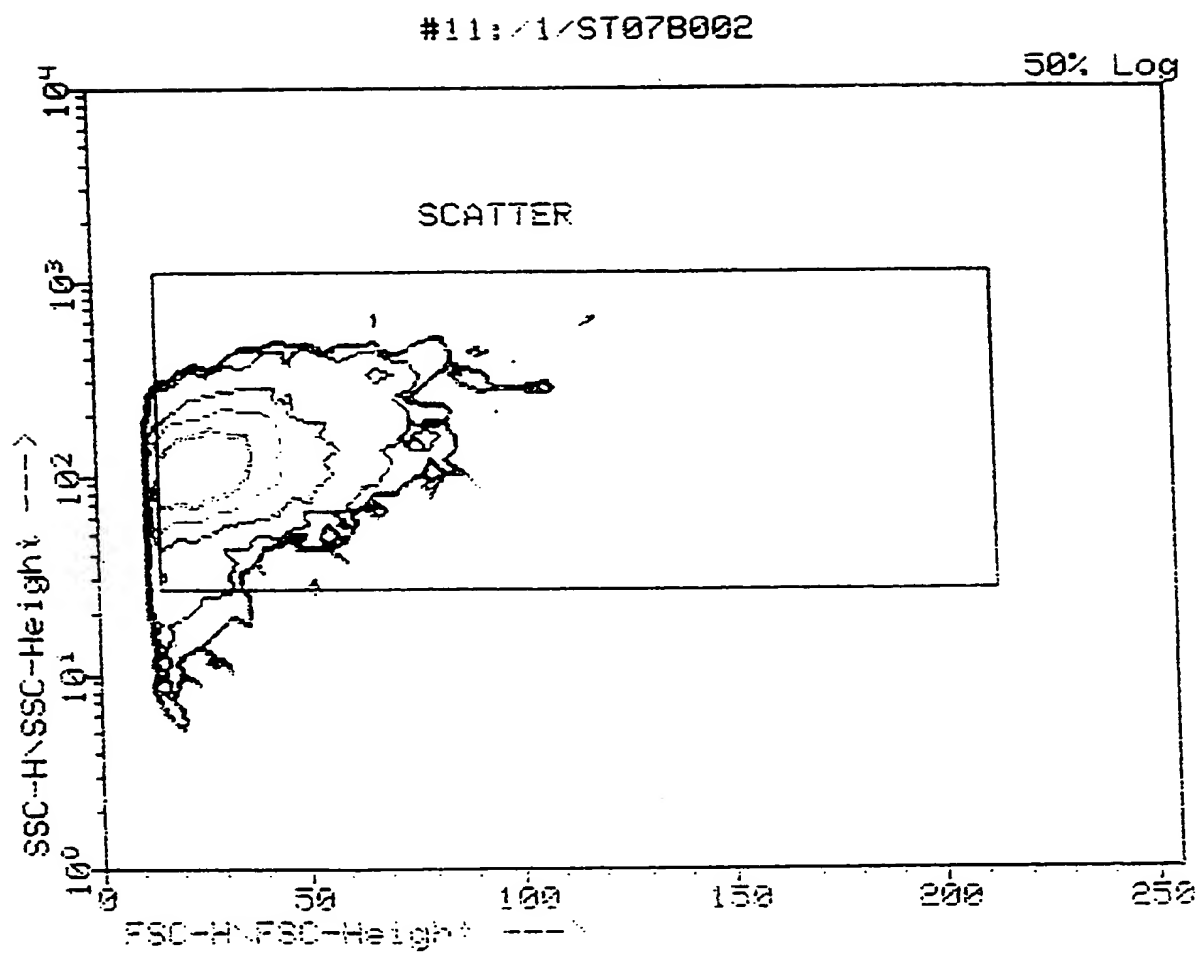


FIG. 4

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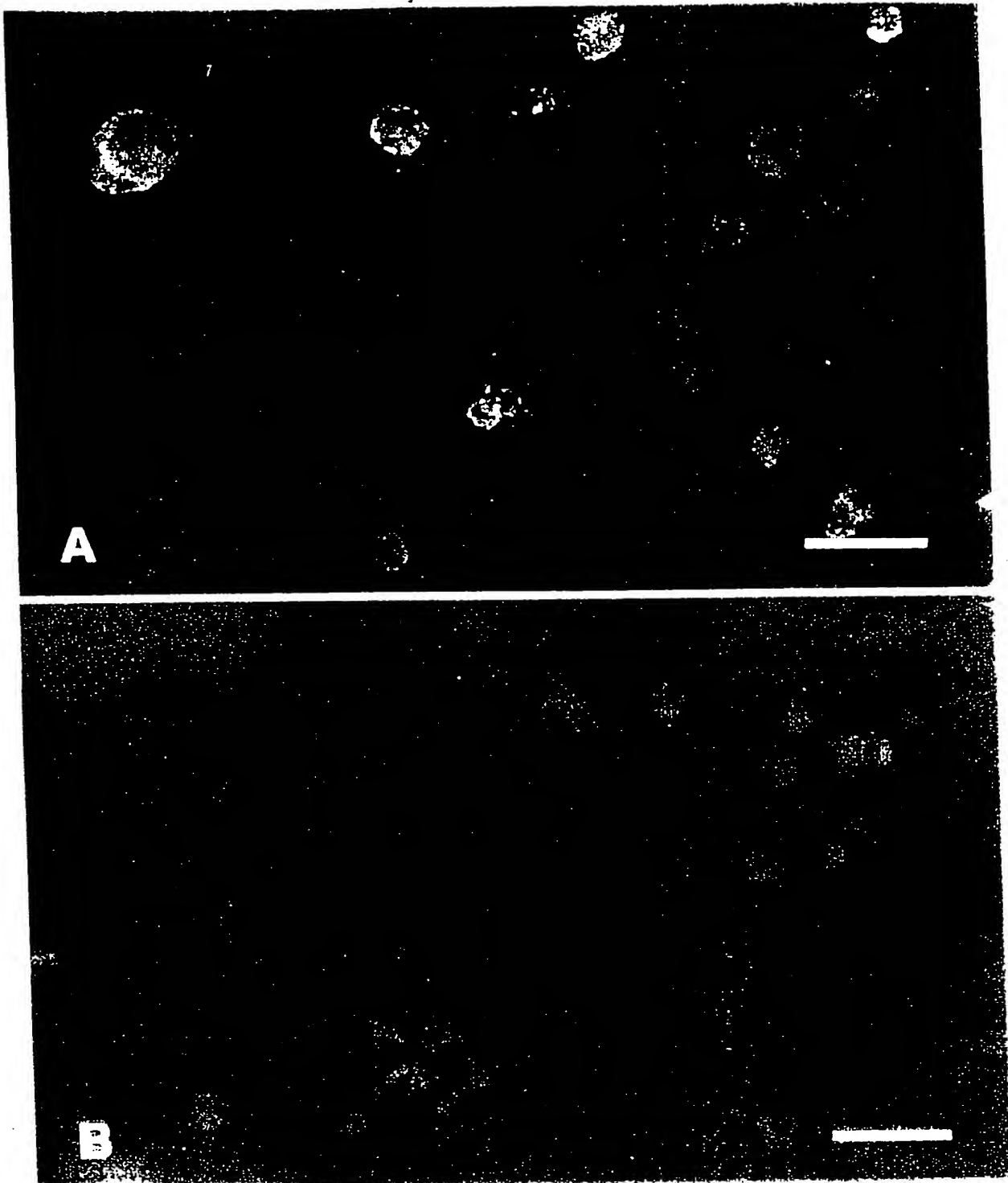


FIG. 5

ANGLE OF INJECTION DETERMINES
MYOBLAST DISTRIBUTION $A > B > C > D$

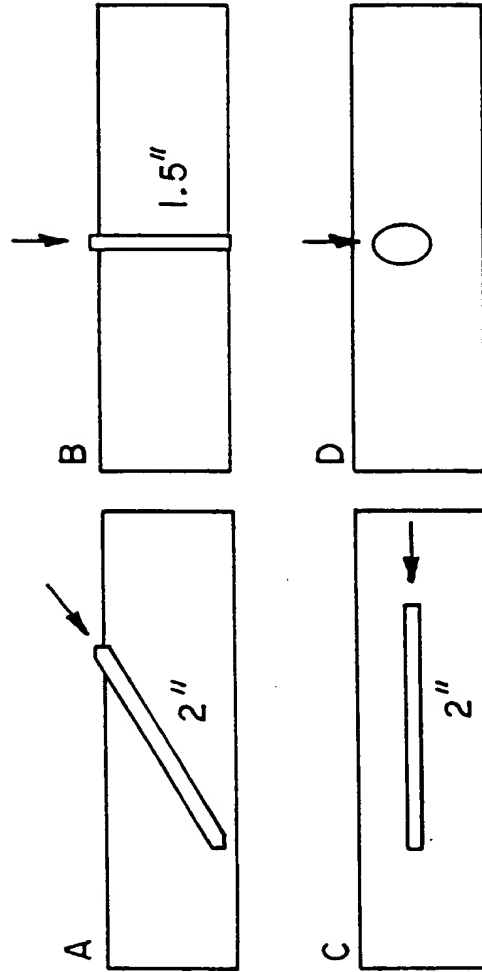


FIG. 6



FIG. 7

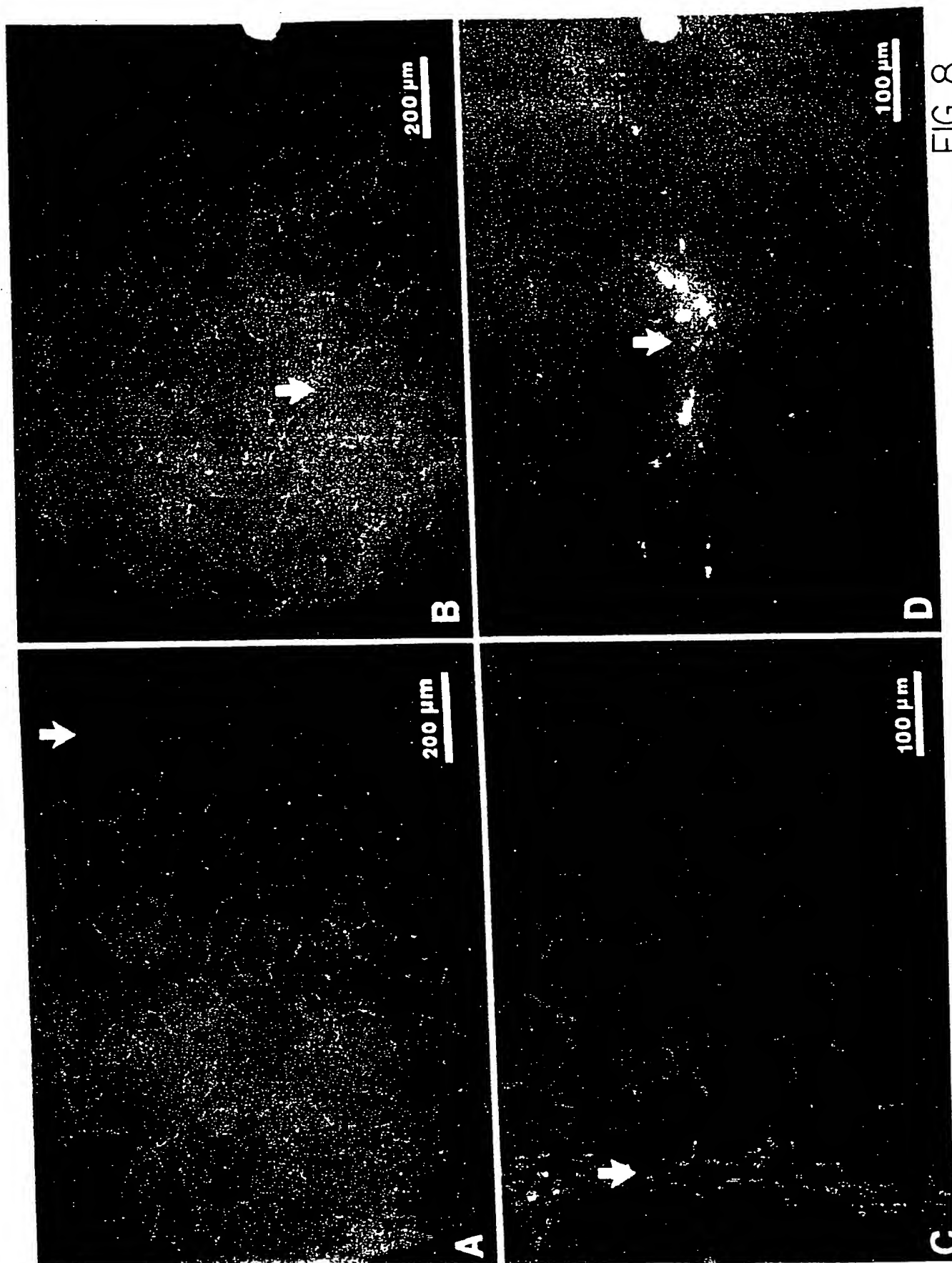


FIG. 8

PRODUCTION OF ALLOPHENIC TWINS

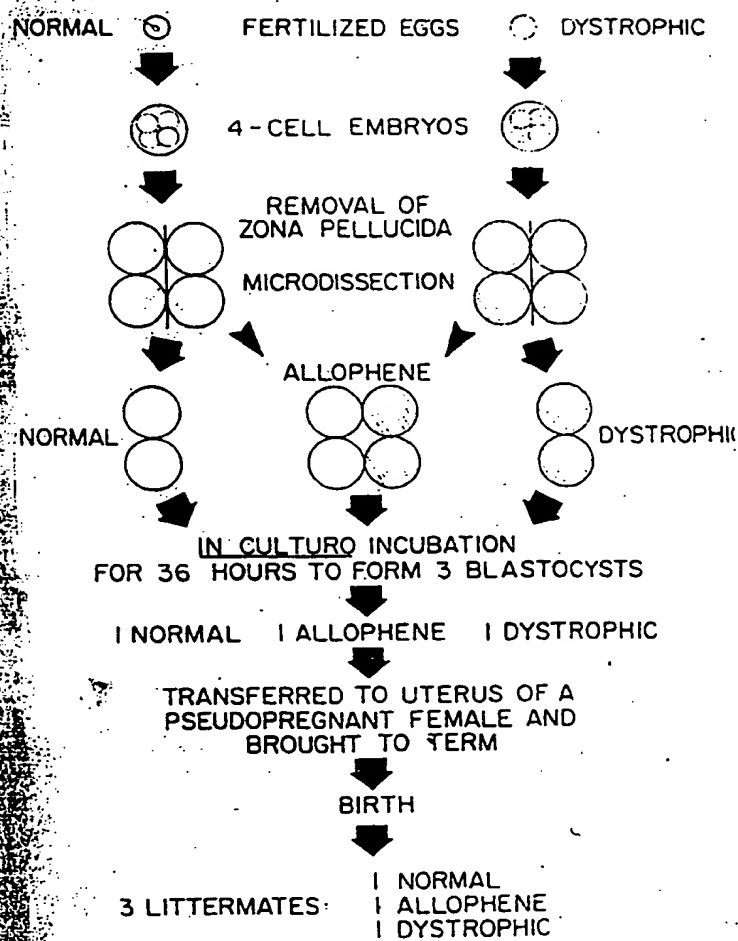


FIG.9



FIG. 10

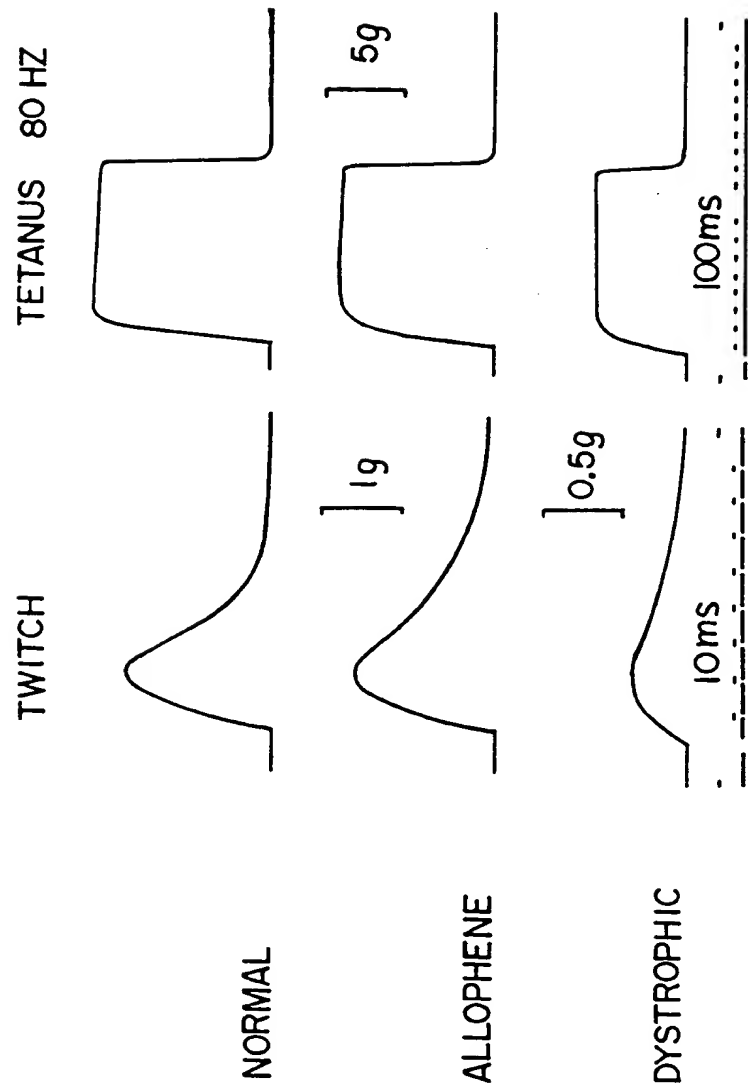


FIG. 11

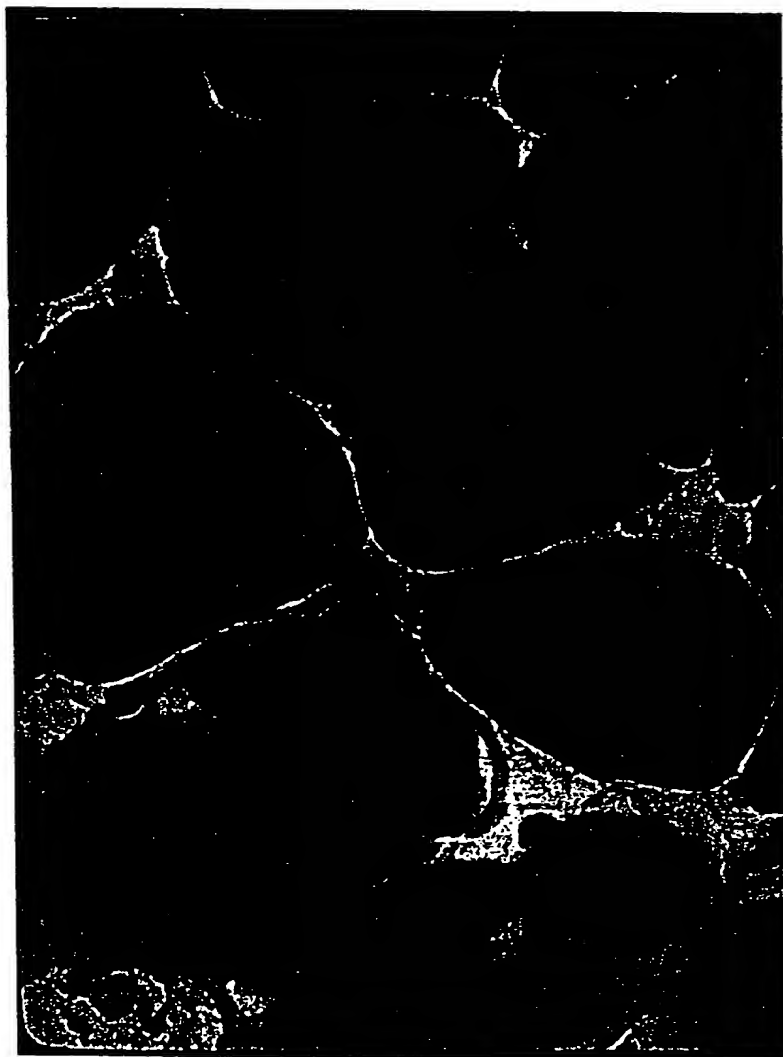


FIG. 12

A high-contrast, black and white photograph of a person's face, heavily shadowed and textured, possibly a mask or a close-up of skin with a rough surface. The image is grainy and has a stark, almost abstract quality.

FIG. 13

Instrument components

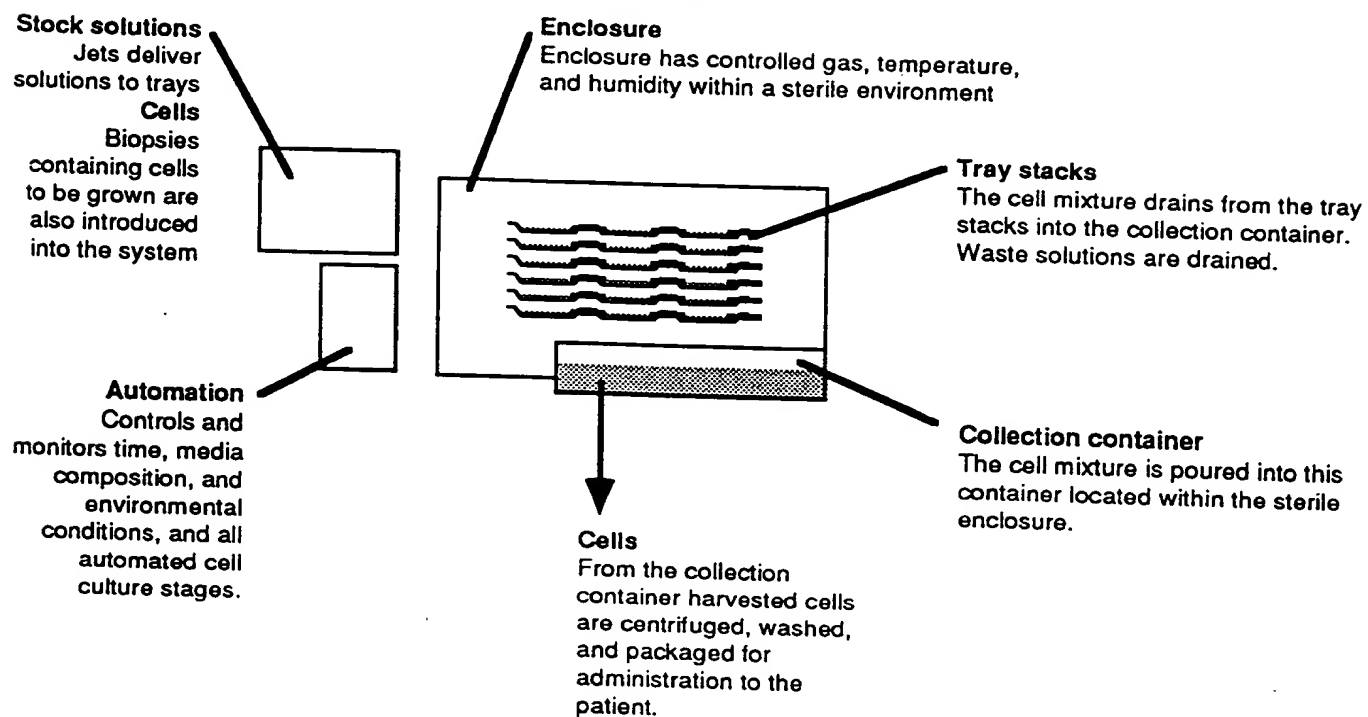
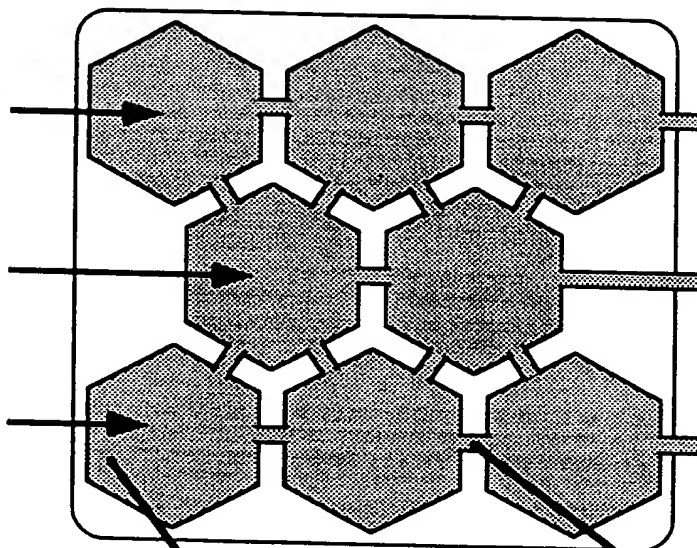


FIG.14

Culture trays

Top view

Jets
Inject solution onto culture plates



Drainage
Solutions from culture plates are either collected or discarded.

Culture plate

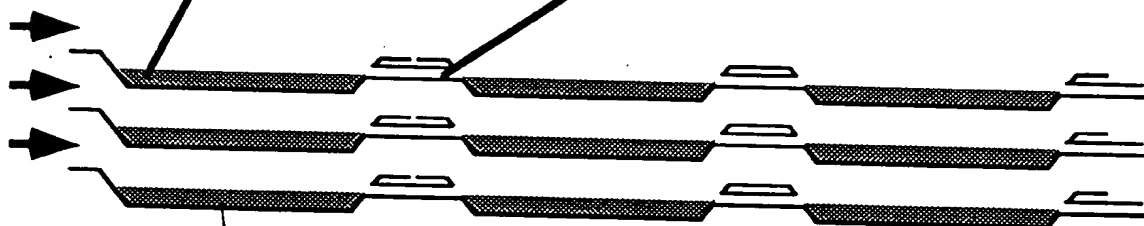
Each plate is 1800 cm². Each holds cells, media, and/or rinse solutions. Made of stainless steel that is sterilized and is coated with collagen to allow cells to adhere.

Flow duct

Keeps the solution level even throughout all the culture plates. Also allows solutions to flow between culture plates when the entire pan tilts.

Side view

Jets
Inject gases and solution onto culture plates



Tray stacks

Composed of many culture plates interconnected by flow ducts. Trays are stacked but do not touch.

Automated actions



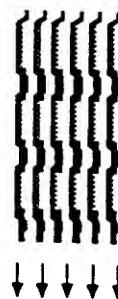
Fill

Jets fill trays with solution



Wash and drain

Tray stacks tilt to allow solutions to drain during washing or media changes. Jets add fresh solution to trays while wash solutions are drained and discarded. Detached cell mixtures are collected.



Drain and collect

Tray stacks tilt to vertical to maximize detached cell collection during harvest.

FIG.15

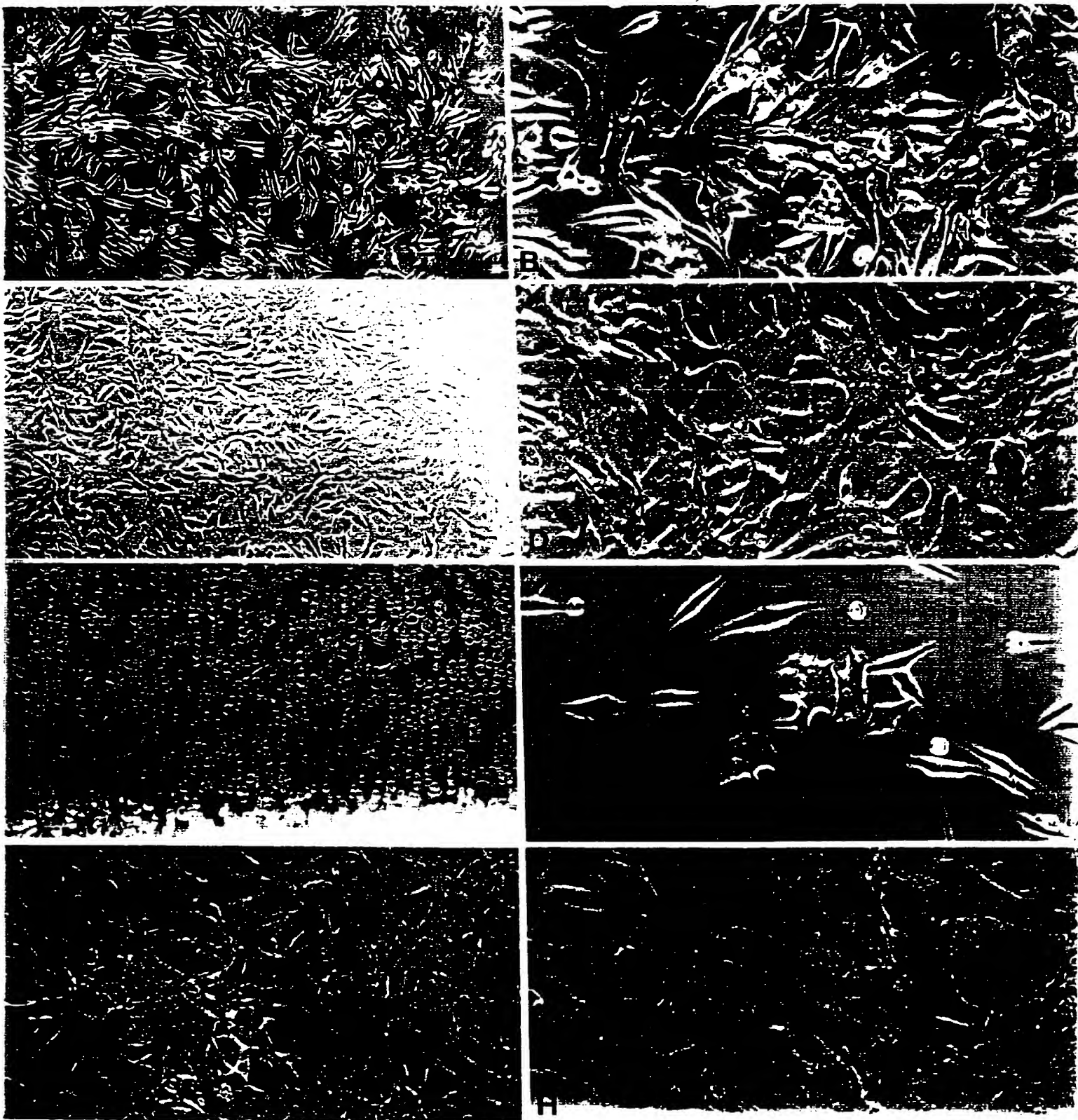


FIG.16

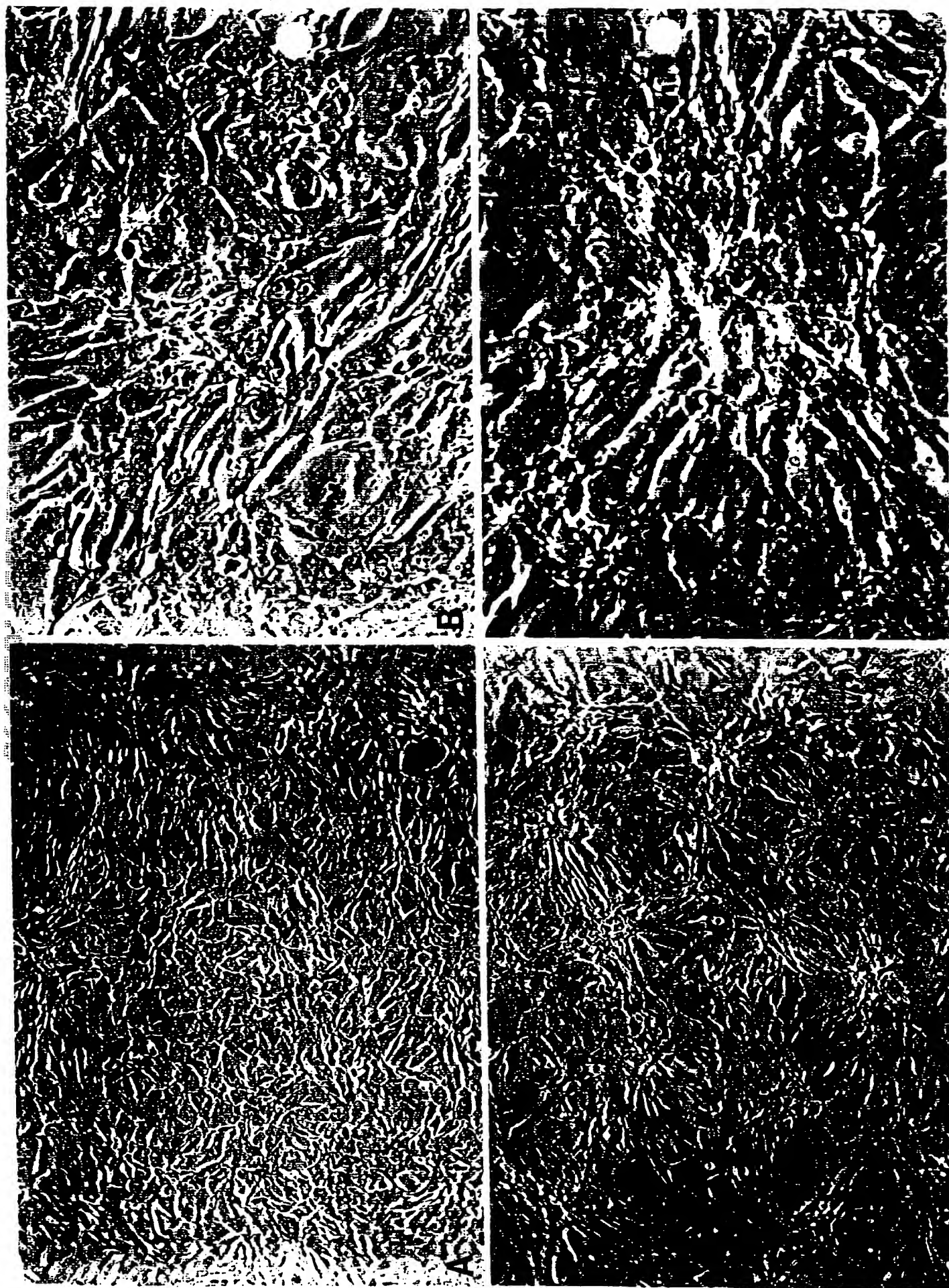


FIG.17

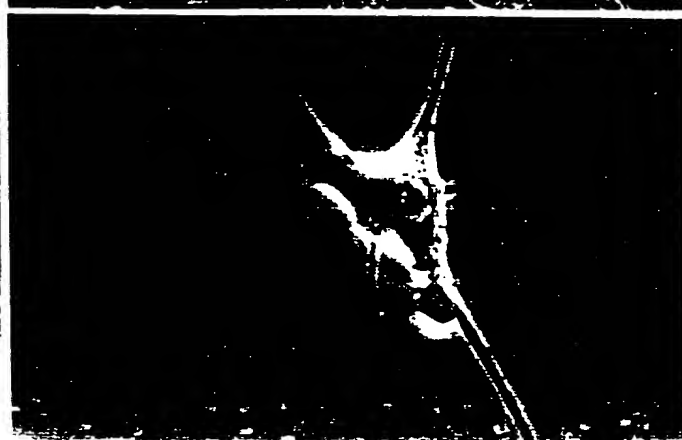
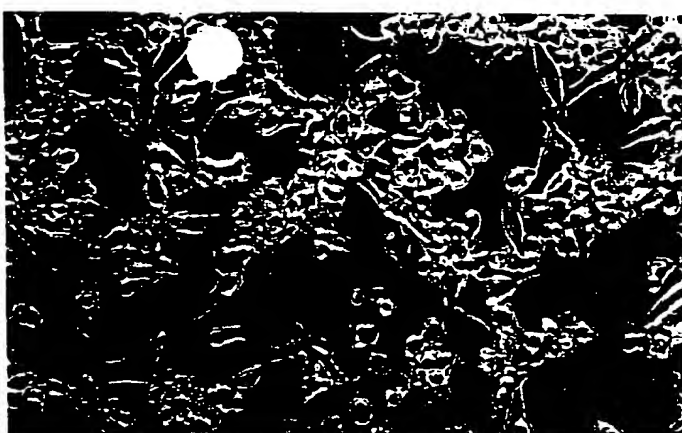
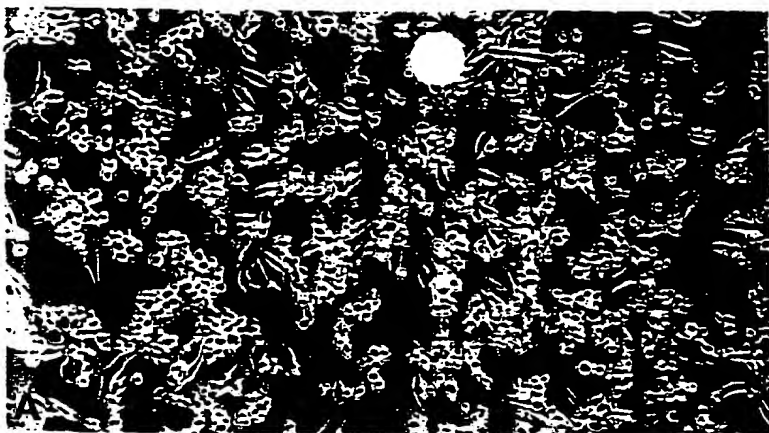


FIG. 18

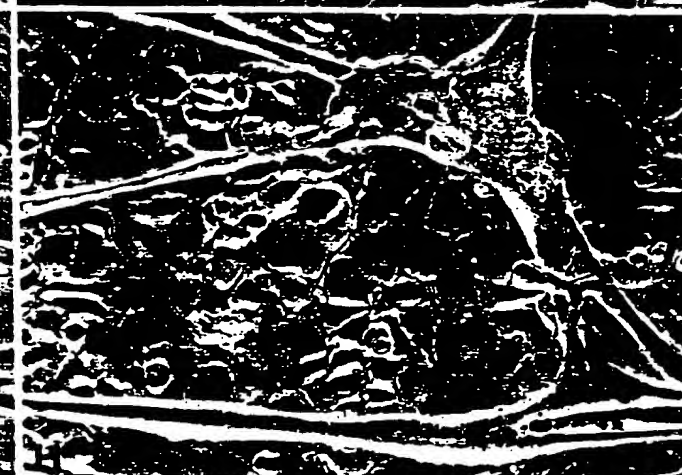
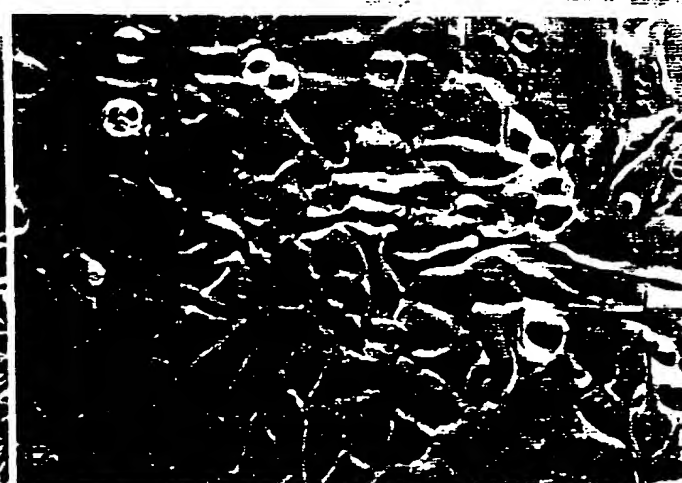
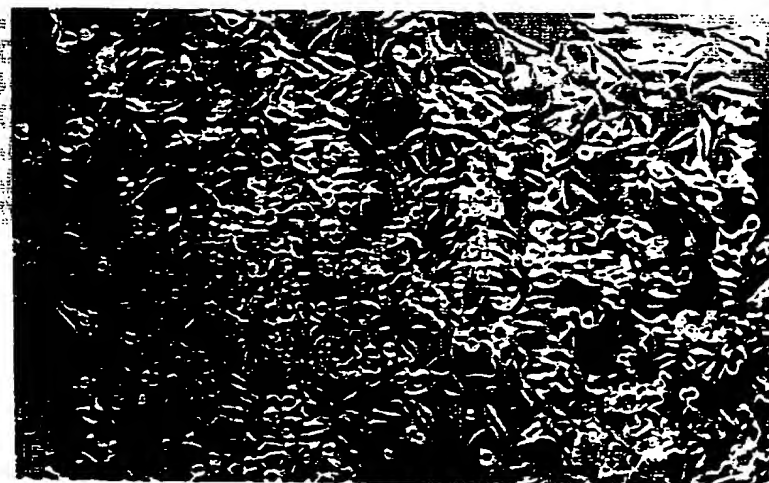


FIG. 18

FIG. 19

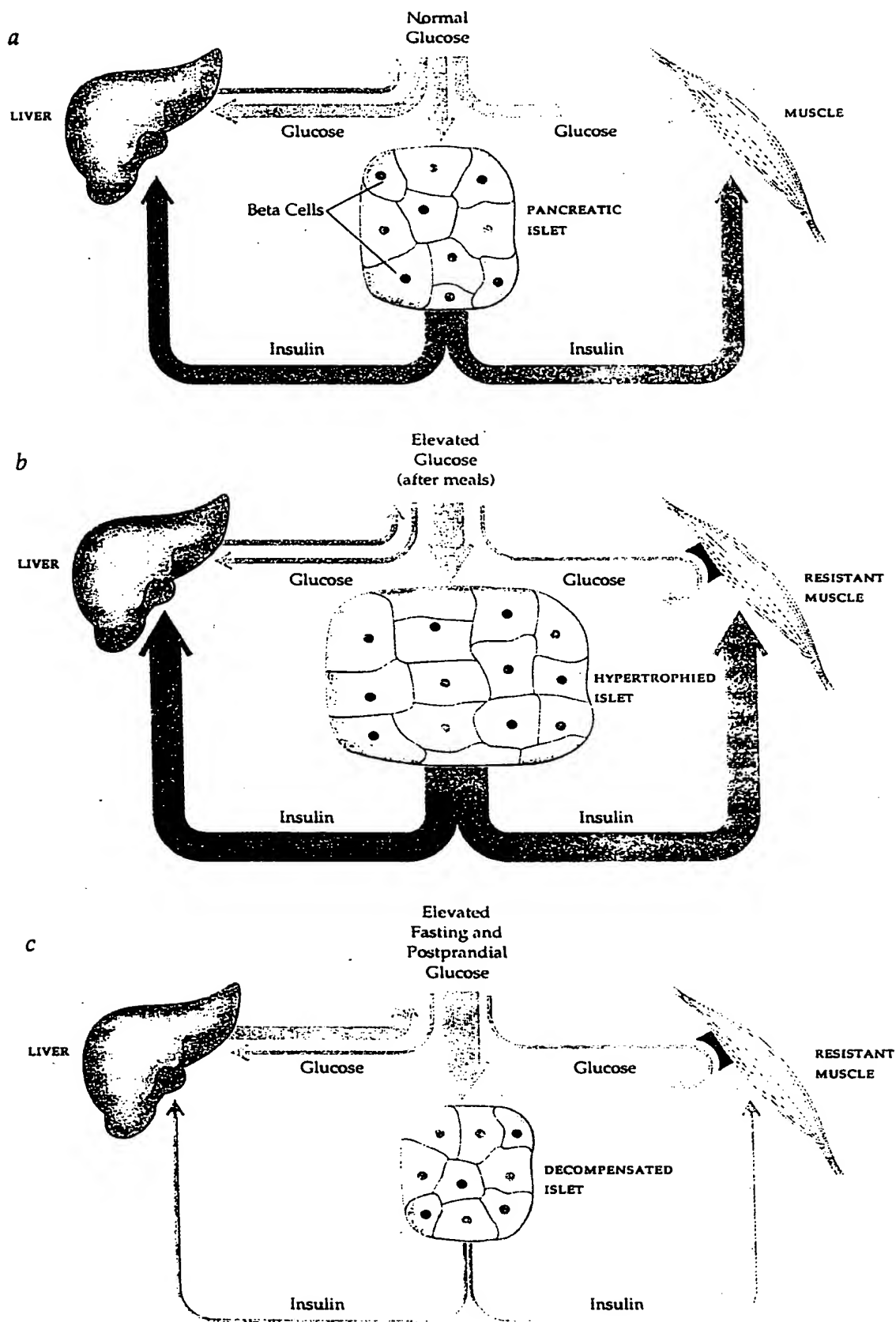


FIG. 20